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| September 16  Introduction   * Project overview and group creation * Chose a duck species   Individually Answer Introductory Guided Questions (found on my website) | September 17  Group Guided Question Response  Investigate the biotic and abiotic requirements of your chosen duck species. *(Think in terms of food, habitat, shelter, predators)*   * *Activity due Sept 24* | September 18  Investigation of Food Webs, and Energy Pyramids.  Creation of a comprehensive food web and energy pyramid for you chosen duck species. (due Sept 24) | September 19  Sustainability Investigation (due Sept 17)  Guided Questions 2 (due Sept 24):   * What is ecological sustainability? * How can sustainability be achieved? * When observing an ecosystem what should one look for to judge its sustainability? * Are sustainable ecosystems necessary for the survival of a community? | September 20    Site A Visit and Observations |
| September 23  Site B Visit and Observations | September 24  Group Analysis of Site A and B Observations  Class discussion surrounding site observations  Group Coordination and Task Completion Time  *Guided Question 3 (due Sept 27):*   * *Explain the difference between an artificial and a natural ecosystem and give some local examples of each.* | September 25  Biodiversity, Bioaccumulation, and Bioamplification  *Guided Question 4 (due Sept 27):*   * *Where will you place your habitat?* * *Why is this location the ideal site for your particular habitat?* | September 26  Adaptations, Pesticides and Fertilizers | September 27  Nutrient Cycles   * Carbon * Nitrogen * Water   Succession  *Guided Question 5 (due Sept 30):*   * *What role will the nutrient cycles play in your ecosystem?* * *How will your ecosystem change and develop over the next 50 years?* |
| September 30  Site A Visit and Observations II | October 1  Site B Visit and Observations II | October 2  Water Testing of Site A and Site B  Complete water testing following the instruction provided online by SDWF  Project Creation | October 3  Water Testing Analysis   * Decision regarding whether or not the levels of the tested substances are in a suitable range for your chosen duck species.   Create Water Testing Lab Report.  Project Creation | October 4  Project Creation |
| October 7  Project Creation   * Presentation * Model | October 8  Project Revisions and Group Conferencing | October 9  Project Revisions and Group Conferencing | October 10  No School | October 11  No School |
| October 14  No School | October 15  Presentations | October 16  Presentations  Group and Self Reflection/Evaluation |  |  |